



Expect Service

Radiation Products Design Inc

INSTRUCTIONS

RPD INFORMATION

Address	5218 Barthel Industrial Drive Albertville, MN 55301
Website	www.rpdinc.com
Email	sales@rpdinc.com
Phone	763-497-2071 or 800-497-2071
Fax	763-497-2295

RPD PRODUCT INFORMATION

Item Number	Description
928-500	Set of 3 Lead Testicle Shields, S, M, and L
928-200	Small Lead Testicle Shield
928-250	Medium Lead Testicle Shield
928-300	Large Lead Testicle Shield
926-200	CT Small Lead Testicle Shield
926-250	CT Medium Lead Testicle Shield
926-300	CT Large Lead Testicle Shield
926-100	Adjustable Stand for Testicle Shields
275-000	Acrylic Testicle Retractor

DISCLAIMER

THESE PRODUCTS ARE NOT STERILE AND ARE TO BE USED BY AUTHORIZED PERSONNEL ONLY.

RADIATION PRODUCTS DESIGN INC assumes no liability for consequential damages of any kind for this material when used interchangeably with products of other manufacturers/suppliers or for any direct or indirect results and consequences of its use or misuse by the customer. Federal law (USA) restricts the sale of this device for use only by (or at the order of) a physician.

INTRODUCTION

Lead Testicle Shields

The lead testicle shields are designed with a tongue and groove interlock to eliminate radiation leakage where the block halves are joined together and to prevent the halves from sliding apart. The shields top and bottom halves can be secured together with two rubber straps (supplied with each unit) optional use. Rotating the entrance of the shield toward the ceiling will reduce scatter radiation from entering the shield. A soft cotton sock or cover can be used to cover the testicles when placing them inside a cold shield. The testicle shields are available in three sizes: small, medium and large. When using the Adjustable Stand with the shields, no rubber straps are needed.

- 1/2" (1.27 cm) lead wall thickness.
- An open sector is provided in each shield to allow comfortable positioning on the patient.
- Lugs cast into each half of the shield unit provide anchor points for the two rubber straps used to hold the unit together.
- All surfaces of the shields are coated with polyurethane paint

Specifications

Material: Lead with 4% Antimony

Lead Density: 11.35g/cm³

Thickness: ½ in (127mm)

Small Size: 2" I.D. x 3" O.D.

Small Opening: 0.6" x 1.25"

Small Weight: 4 lbs

Medium Size: 2.5" I.D. x 3.5" O.D.

Medium Opening: 0.75" x 1.6"

Medium Weight: 5.7 lbs

Large Size: 3" I.D. x 4" O.D.

Large Opening: 1" x 2"

Large Weight: 7.25 lbs

CT Testicle Shields

The CT Testicle Shields are identical to the Lead Testicle Shields in size and shape but not weight. They are made of blue silicone rubber with shore hardness of 50A. The CT Testicle Shields do not use the rubber straps as the straps are too strong for the silicone rubber.

The CT testicle shields are available in three sizes: small, medium and large. A soft cotton sock or cover can be used to cover the testicles when placing them inside a cold shield.

The CT Testicle Shields should be used with the Adjustable CT Stand. This easily Adjustable CT Testicle Shield Stand will cradle all 3 sizes of the round CT testicle shields. The holder for the testicle shield is made of PVC on this stand to minimize artifact on the CT scan. A hand knob allows for easy vertical adjustment from 1" to 10" (five turns per inch). The counter weighted base is made of cast iron. A plastic plate, secured to the base, provides easy positioning. The unit can be used for anterior and posterior treatments.

It is recommended that the Adjustable Stand for Testicle Shields (Item 926-100) be used while raising and lowering the testicle shields, as this will reduce patient discomfort.

Specifications

Small Size: 2" I.D. x 3" O.D. (5.09 x 7.65 cm)

Small Opening: 0.6" x 1.25" (1.53 x 3.19 cm)

Medium Size: 2.5" I.D. x 3.5" O.D. (6.37 x 8.92 cm)

Medium Opening: 0.75" x 1.6" (1.91 x 4.08 cm)

Large Size: 3" I.D. x 4" O.D. (7.65 x 10.2 cm)

Large Opening: 1" x 2" (2.55 x 5.09 cm)

Adjustable Stand

Both Lead and CT Testicle Shields may be used with this Adjustable Stand. This easily Adjustable Testicle Shield Stand will cradle all 3 sizes of the round testicle shields. The holder for the testicle shield is made of PVC on this stand to minimize artifact on the CT scan. A hand knob allows for easy vertical adjustment from 1" to 10" (five turns per inch). The counter weighted base is made of cast iron. A plastic plate, secured to the base, provides easy positioning. The unit can be used for anterior and posterior treatments.

Specifications

Size: 5" W x 10" D x 13.5" H (12.7 x 25.5 x 34.4 cm)

Weight: 10.25 lb (4.7 kg)

Acrylic Testicle Retractor

The Testicle Retractor excludes a part or all of the testicle and scrotum from the direct beam while irradiating a portion of the scrotum.

This T-shaped device with a groove along the vertical support, allows a narrower blade (also with a groove) to be positioned in any vertical or angled orientation to the patient. It is fixed in position by a locking knob.

LEAD TESTICLE SHIELD INSTRUCTIONS

1. After patient is in position on the couch, place the adjustable stand between the patient's thighs. The stand should be placed so the shield holder ring is towards the patient and the counter-weighted base is towards the feet.
2. Adjust the ring height to scrotum.
3. If using a scrotum cover or a soft cotton sock have patient put it on.
4. Attach the two rubber straps to the knob on one half of the testicle shield, straps should be perpendicular to scrotal opening. The use of the rubber straps is optional.
5. Place the half of the testicle shield with the rubber straps on the ring holder with the knob going down towards couch, the shield opening facing up and cutout towards scrotum
6. Move the adjustable stand towards the patient and have the patient place scrotum into the shield at the cutout area.
7. Adjust the height of the shield by turning the knob on the top of the stand to a level comfortable for patient.
8. Place top half of testicle shield over scrotum and onto bottom half of testicle shield, taking care not to pinch the scrotum.
9. Make adjustments to height of shield and scrotum opening for patient comfort.
10. Pull the rubber straps up and attach to the knob on top half of testicle shield.
11. Rotating the testicle shield so the scrotum entrance is toward the ceiling will reduce 90° scatter radiation from entering the shield.

CT TESTICLE SHIELD INSTRUCTIONS

1. After patient is in position on the couch, place the adjustable stand between the patient's thighs. The stand should be placed so the shield holder ring is towards the patient and the counter-weighted base is towards the feet.
2. Adjust the ring height to scrotum.

3. If using a scrotum cover or a soft cotton sock have patient put it on.
4. Place the half of the CT testicle shield on the ring holder with the knob going down towards couch, the shield opening facing up and cutout towards scrotum.
5. Move the adjustable stand towards the patient and have the patient place scrotum into the CT shield at the cutout area.
6. Adjust the height of the CT shield by turning the knob on the top of the stand to a level comfortable for patient.
7. Place top half of CT testicle shield over scrotum and onto bottom half of CT testicle shield, taking care not to pinch the scrotum.
8. Make adjustments to height of shield and scrotum opening for patient comfort.
9. Pull the rubber straps up and attach to the knob on top half of testicle shield.
10. Rotating the CT testicle shield so the scrotum entrance is toward the ceiling. This will reduce 90° scatter radiation from entering the lead shield.

SPECIAL PRECAUTIONS

Thoroughly rinse off soap to prevent pain such as: stinging, burning, itching, and etc. from occurring.

Do NOT store in liquid - store dry and disassembled

INSPECTION

Before each use and prior to sterilizing, examine shields for burrs or rough edges, which could have occurred through normal use.

CLEANING

Lead Testicle Stand and Shields

- All shields must be thoroughly cleaned before being disinfected or sterilized.
- The presence of organic matter can protect bacteria from the action of the disinfectant or sterilant, or react with the agent and make it ineffective.

- Cleaning can be done with:
 - 1) water alone
 - 2) with soap or detergent and water
 - 3) water and soap or detergent and disinfectant.
- Cleaning with a disinfectant reduces the risk of contamination to the cleaning staff, but does not eliminate them completely.

CT Testicle Shields and Stand

- The Adjustable stand can be cleaned with soap and water and/or low or intermediate level disinfectants.
- The CT Testicle Shields can be cleaned with soap and water and intermediate or high level disinfectants.

DISINFECT

Cidex OPA Separate parts prior to disinfection. Wash with water and soap or detergent and disinfectant. Soak in Cidex OPA for 12 minutes. Then rinse in three different batches of sterile water to remove all traces of Cidex OPA.

Note: This product does not require ACTIVATION.

STERILIZATION METHODS

Autoclave (Steam) Separate all parts prior to sterilization. Autoclave wrapped parts for 5 minutes at 270°F (132.3°C).

DO NOT assemble damp/wet shield parts

Sterrad® Separate all parts prior to sterilization. Sterrad® uses Hydrogen Peroxide solution. Note: Not tested

100S	Use Long cycles
NX™	Use Standard and Advanced cycles
100NX	Use Standard cycle

WARRANTY

1 year from date of purchase.

REFERENCE

Testicular Doses in Definitive Radiation Therapy for Localized Prostate Cancer, C. J. Amies. M.App.Sc, H. Mameghan, F.R.A.C.R., A. Rose. M.A.I.P. and R. J. Fisher, Ph.D, Int. J. Radiation Oncology Biol. Phys., Vol. 32, No. 3, pp. 839-846, 1995

End of Document